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# THE IMPORTANCE OF IRANIAN AND MIDDLE EAST OIL. TO WESTERN EUROPE UNDER PEACETIME CONDITIONS

#### I. The Problem:

To estimate the importance of (a) Iranian oil production and (b) total Middle East oil production to Western Europe in time of peace.

#### II. Assumptions:

That access to (a) Iranian oil production, and (b) total Middle East oil production is denied to the Western Powers by means other than war.

- III. Discussion: (See Enclosure A.)
- IV. Tables: (See Enclosure B.)

#### V. Conclusions:

- 1. The amount of crude oil and refined products now exported from Iran could be derived from other areas by small increases in crude production and by fuller use of available refining capacity. At the rates of consumption and levels of prices prevailing at the end of 1950, the extra annual dollar charge to Europe of procuring this amount of oil elsewhere would be about \$700,000,000.\*
- 2. Loss of Iranian oil production and of the refinery at Abadan would temporarily have an adverse effect upon Western European economic activity, and would impose severe financial losses particularly upon the British, who control all the oil production of the country. Although the effect of the loss of Iran on the volume of petroleum which could be made available to Western Europe might be overcome in a relatively short time by developing reserves and building refineries elsewhere, the financial effects would be overcome slowly, if at all.

This paper has been prepared in response to a request from the Senior Staff of the National Security Council.

<sup>\*</sup>Figures in this paper representing estimates of extra annual dollar costs and of the extent of oil shortages which would result from a loss of Iranian or Middle Eastern oil are indicative rather than exact. They will hold true as given only as long as oil prices stay at the levels of late 1950, and oil production and consumption continue at the rates currently estimated for the fiscal year 1950-51. The general effect of the rearmament programs in the US and in Western Europe will presumably be to raise the consumption of oil, and probably also to raise its price. These factors would tend to make the oil of the Middle East more important to the western economies, and to cause its loss to be even more severely felt than is indicated by the figures cited in this paper.

SECRET

- 2 -

- 3. If all Middle East oil production were to be lost, a cutback of about 10 percent in the total oil consumption of the non-Soviet world would have to be imposed, even after a maximum practicable increase of production from other sources. This would call for substantial rationing in the United States as well as elsewhere. International allocation would be required. At the price level of late 1950 a net increase in dollar requirements of from \$1 to \$1.2 billion would occur if Western Europe, after a cutback of 10 percent in its consumption, were to procure from alternative sources an amount of oil sufficient to make up for the loss of Middle East imports.
- 4. It is estimated that if a cutback of 10 percent from present levels of oil consumption were imposed on Western Europe, it would permit maintenance of industrial production at approximately the levels of late 1950, and of transportation at the extreme minimum necessary for that purpose. No appreciable expansion of industry, whether for normal economic development or for rearmament, would be possible. Rationing even to reduce consumption by 10 percent would present great difficulties in time of peace.
- 5. No way can be foreseen at present by which a satisfactory adjustment, over a longer period of time, could be made to the total loss of Middle East oil, unless new reserves are proved elsewhere, or new sources of energy developed.

  Western Europe therefore would not be able to compensate for the loss of Middle East oil save by profound changes in its currently planned economic structure.

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#### ENCLOSURE A

#### DISCUSSION

- 1. Total petroleum requirements of Western Europe (including the UK) for the fiscal year 1950-51 are estimated at 66 million metric tons, of which 42.5 million will be imported as crude and 20 million as refined products; the remaining 3.5 million tons will be derived from indigenous sources. Of the total import requirements, 43.8 million metric tons, representing 70 percent, will come from the Middle East. In addition, international bunkers of 6 million tons and US military supplies aggregating approximately 2.5 million metric tons will be lifted in the Middle East area.
- 2. Of the total requirements of Western Europe, it is estimated that Iran alone will supply the following:

#### Millions of Metric Tons

Crude Cil	Percent of WE Requirements
7	16
Refined Products	
6.3 (including British Wilitary)	31
Bunkers	
4	67

3. It is estimated likewise that of total Western European requirements, the entire Middle East area will supply the following:

#### Millions of Fetric Tons

Crude Cil	Percent of WE Requirements
38	90
Refined Products	
8.3	40
Bunkers	
6	100

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#### Loss of Iranian Production

- 4. If Iranian oil should cease to be available, the seven million metric tons of crude oil by which Western Europe would thereby fall short (according to the 1950-51 estimates) could be more than made up by increasing the output of British companies operating elsewhere in the world. Indeed it could all be replaced, at some additional dollar cost, from the other producing areas of the Middle East. Replacement for the balance of Iran's crude oil output (that processed at Abadan) could also be obtained outside the Soviet sphere by releasing shut-in production and by more rapid drilling of known reserves.
- 5. Loss of the Abadan refinery, with its capacity of 27 million metric tons per year, would call for much more difficult adjustments than would the loss of Iran-lan crude oil output. There is now in the non-Soviet world, outside Iran, enough refining capacity to process an additional amount of crude equal to that now going through the Abadan plant. If Abadan were lost, however, at least six months would be required to place marginal plants in operation, to change the composition of refinery output, to alter tanker routings, and to complete the redistribution of crude oil among the other refineries.
- 6. To acquire from other sources the amounts of crude oil and refined products which Western Europe now imports in one year from Iran would involve an extra dollar expenditure of about \$700,000,000, assuming the level of prices remained the same as that prevailing at the end of 1950.
- 7. Loss of Iranian oil production and of the refinery at Abaden would temporarily have an adverse effect upon Western European economic activity, and would impose severe financial losses particularly upon the British, who control all the oil production in the country. Although the effect of the loss of Iran upon the volume of petroleum which could be made available to Western Europe might be overcome in a relatively short time by developing reserves and building refineries elsewhere, the financial effects would be overcome alouly, if at all.

#### Loss of all Middle East Oil

- 8. The loss of all Middle East oil production would reduce the current supply of crude oil in the non-Soviet world by about 93 million metric tons per year. By increasing production to the greatest degree feasible in areas still accessible, this shortage could be reduced to about 53 million metric tons, which is equivalent to about 10 percent of estimated 1950-51 total oil consumption in the non-Soviet world. Sufficient refining capacity would be available to process the reduced total supply of crude, but the problems of readjustment and allocation mentioned in paragraph 5 above would, of course, be greater, and the time required to carry them out would be longer.
- 9. The maximum cutback in Western European oil consumption which would still permit maintenance of industrial production at approximately the levels of late 1950, and of transportation at the extreme minimum necessary for that purpose, is estimated to be about 10 percent. Such a cutback would permit no appreciable expansion of industry, whether for normal economic development or for purposes of rearmament, and it would cover only about 6.6 million metric tons out of the total deficiency of 53 million. Hence it is clear that even if Western Europe were restricted to less than 90 percent of its estimated 1950-51 consumption, the loss of all Middle East oil would make substantial rationing necessary in the United States. Despite the fact that the US is virtually self-sufficient in oil production, it would have to cut its consumption by at least 10 percent. International allocation would immediately become necessary.
- 10. At the price level of late 1950 a net increase in dollar requirements of from \$1 to \$1.2 billion would occur if Western Europe, after a cutback of 10 percent in its consumption, were to procure from alternative sources an amount of oil sufficient to make up for the loss of Middle East imports.
- 11. No way can be foreseen at present by which a satisfactory adjustment, over a longer period of time, could be made to the total loss of Middle East oil, unless new reserves are proved elsewhere, or new sources of energy developed. Though the Middle East now contributes only 18.4 percent of total non-Soviet production, it contains 44.4 percent of proved reserves outside the Soviet orbit. A very large pro-

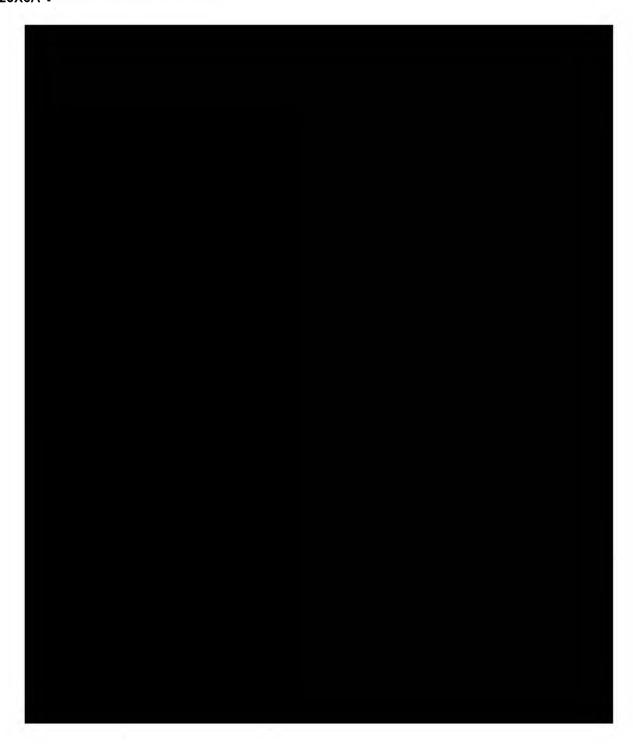
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-4-

portion of the presently contemplated increase in non-Soviet oil supply is expected to come from the Middle East. Western Europe, therefore, would not be able to compensate for the loss of Middle East oil save by profound changes in its currently 25X6A planned economic structure.



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#### ENGLOSURE B

Table	14.	Estimated Imports of Crude Oil and Refined Products into
		CERC Countries 1950-1951.
Table	1B.	Estimated International Bunker Liftings (Refined Products)
		in the Persian Gulf Area.
Table	II.	Control of World Crude Reserves 1950-1951.
Table	III.	Ownership of World Crude Production 1950-1951.
Table	IV.	Ownership of world Refining Capacity 1950-1951.
Table	V.	Loss of Iranian Oil.
Table	VI.	Loss of All Middle East Oil.

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#### MOLOSURE B

#### TABLE 1A

## ASTIMATED IMPORTS OF CRUDE OIL AND REFINED PRODUCTS INTO OEEC COUNTRIES 1950-51

From

		1,000	MT/Y	/t	B	
Eastern Hemisphere	Crude	Products	Total	Crude Percent	Products Percent	Total <u>Porcent</u>
Middle East (Includes US milit	38,065 ery)	8,321	46,386	89.69	41.39	74.16
Other	- WOMEN BACKY	100	100	enth control only a	- 50	16
Total	38,065	8,421	46,486	89.69	41.89	74.32
Western Henisphere						
USA	1.50	1,850	2,000	. 35	9.20	3.20
Caribbean	4,067	9,604	13,671	9.58	47.77	21.86
Other	160	230	<u>390</u>	38	1.14	
en ekster frankriker for kannelskalanderhannske skriver ekster ekster kannelskalanderna og skriver.	4,377	11,684	16,061	10.31	58.11	25.68
GRAND TOTAL	42,442	20,105	62,547	100.00	100.00	100.00

TABLE 1B

## ESTIMATED INTERNATIONAL BUNKEL LIFTINGS (REFINED PRODUCTS) IN THE PERSIAN GULF AREA

1950 - 1951

	1.000 MT/Y	Percent
From Iran	-4,000	66.67
From Other Middle East	2,000	<u>33.33</u>
Total	6,000	100.00

2.

9,987,972

TABLE II

CONTROL OF WORLD CRUDE RESERVES

1950-1951

			25X6A					
Area	United St	ates		*	1000 MT	\$	Total 1000 MT	% World Total
Eastern Hemisphere								•
Hiddle East								
Traq	170,445	23.7		<b>52.</b> 6	170,445	23.7	719,178	7.2
Kuwait	753,424	50.0		50.0	******	pho-space	1,506,849	15.1
Saudi Arabia	1,232,877	100.0		RPHINA	-	wheeles	1,232,877	12.3
Îran	****	eterate.		100.0	will respect	***	958,904	9,6
Bahrein	minimores.	entre est.		100.0		THE PARTY OF THE P	21,917	2
Total	2,156,746	********		derilla	170,445	23.7	4,439,725	44.4
East Indies Islands	62,172	31.3		68.7	name.	royd State	198,63	₹.0
OEEC Countries	5.834	20.0		25.0	16.044	55.0	29.171	3
Total	68,006	san dib		Make Market	16,044	ududd.	227,802	***
Western Hemisphere								
US XBA								
Carribbean Exporting	888,865	61.5		38.1	5,781	0.4	1,445,309	1/5
Total	4,602,427	amazina ala		مليون لي	122,219	<u></u>		14.5
Other	4,000,421	Artawala.		ture.	144,419	aartes	5,275,309	
o cher	-through	24244			AND THE PARTY OF T	1.4	45,136	.5

TOTAL WORLD

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	OWNERSHIP OF WOLLD CRUDE PRODUCTION 1950-1951					3.		
Area	United States 1000 MT Percent		Other 1000 MT Per					
Eestern Hemisphere								
Middle East Iraq Kuwait	1,720 9,500	23.7 50.0		1,720	23.7	7,250 19,000	1.44 3.77	
Saudi Arabia Iran Catar	29 <b>,7</b> 50 <b>-</b> 4 <b>7</b> 6	23.8		- 476	23.8	25,750 35,000 2,000	5.91 6.95 .40	
Bahrein Total	41,446	***		2,196	-	1,500 94,500	<u>.30</u> 18.77	
East Indies Islands OEEC Countries Total	3,350 538 3,888	31.3 20.0		1,563 1,563	55.0	10,700 2,782 13,482	2.13 .55	
Western 25X6Aere 29897d	,							
Carribbean Exporting	_55,055	61.5		225	0.1	de tou	מת הת	
Total	343,805	01.2		10,327	0.4	85,490 388,240	17.77	
Other Total World	<b></b>	a.			1,4	$\frac{7,110}{503,332}$	1.41	
	OMM	RSHIP (F		APACITY				
Area	Urited 1000 MT	States Porcent		Otl 1000 MT	ner Percent	Tot 1000 MT	al Percent of World Total	
Eastern Hemisphere 25%66 East								
Kuwait Seudi Arebia Abrdan	625 6,500	50.00 100.00		eren -eren -tar-	TET SEEN	800 1,250 6,500 27,500	.02 .25 1.30 5.52	
Tripoli Rehrein Total	142 8,000 15,267	23.75 100.00		173	28.75	600 8,000 44,650	.01 1.61	
East Indies Islands 25%GA & East Asia	3,200	31,68		3 5	#0 #*	10,100 2,500	2.03	
Mortmern Airica & Sp. OMEC Countries	3,200	MASE/ Suite		TOTAL STATE OF THE	en en	3,450 44,429 61,129	.65 8.92	
Western Hemisphere United States	- 100 - 100	ence mon		15,500 8,350	100.00	300,000 15,500 8,350	60,20 3.11 1,68	
Carribbean Exporting Colombia Venezuela	1,420 7,007	100,00 57.2		538b		1,420 12,250	. 28 2.46	
Peru Sciedor Trinided Uotherlends U lodie	1,452 	96.8 - 53.4		24	1.6	1,500 230 4,750 39,300	,30 00 95 7,89	
Total Other Latin America	30,879	e e e e e		23,874	cus.	383,300 9,250	1,86	
Total World	30 <sub>8</sub> 879			23,874		392,550 49 <b>8,</b> 329		
				6-1		رجروں(به		

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#### TABLE V

#### LOSS OF IRANIAN OIL

(Millions of Units)

- 1. Production physical quantities (1950-51)
  - a. Crude

35 MT/Y (metric tons per year)

b. Refined

25 MT/Y

- 2. Loss of crude imports from Iran by Western Europe 7.5 MT/Y
- 3. Dollar element of cost in replaced crude 455
- Loss of refinei products imported from Iran by Western Europe and Sterling Area
   MT/Y
- 6. Gross dollar cost of replacing crude and refined (Items 3 and 5) US20-830
- 7. Dollar savings equipment and services \_110-120
- 8. Estimated net dollar cost annually (Item 6 minus Item 7) \times 710

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#### TABLE VI

## LOSS OF ALL MIDDLE EAST OIL

(Millions of Units)

1. Production - physical quantities (1950-51)

a. Crude

94.5 MT/Y

b. Refined

44.7 PT/Y

2. Loss of crude imports from Middle East by Western Europe

43.5 MT/Y

3. Dollar element in replaced crude

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- 4. Loss of refined products imported from Middle East by Western Aurope and Sterling Area 38 MT/Y
- 5. Annual dollar cost of replacing refined (Item 4) \$1200
- 6. Gross dollar cost of replacing crude and refined (Items 3 and 5)
- 7. Dollar savings equipment and supplies, profits to Bahrien Petroleum Co., dollar element in goods furnished Middle East by Western Burope, etc.
- 8. Estimated net dollar cost annually assuming no cutback in current requirements (Item 6 minus Item 7)
- 9. Ten percent cutback would save

**\$300**